

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L14	347	(US-7377035-\$ or US-7316547-\$ or US-7296981-\$ or US-7296435-\$ or US-7293495-\$ or US-7281907-\$ or US-7273358-\$ or US-7255539-\$ or US-7225724-\$ or US-7225723-\$ or US-7218017-\$ or US-7195464-\$ or US-7185431-\$ or US-7179064-\$ or US-7168929-\$ or US-7144229-\$ or US-7137792-\$ or US-7137791-\$ or US-7121635-\$ or US-7070397-\$ or US-7069986-\$ or US-7056105-\$ or US-7037090-\$ or US-7033150-\$ or US-7029249-\$ or US-7024960-\$).did. or (US-7013793-\$ or US-7001158-\$ or US-6991436-\$ or US-6981854-\$ or US-6960067-\$ or US-6956306-\$ or US-6948418-\$ or US-6942470-\$ or US-6913038-\$ or US-6896495-\$ or US-6881042-\$ or US-6857857-\$ or US-6840746-\$ or US-6838788-\$ or US-6832900-\$ or US-6802700-\$ or US-6790015-\$ or US-6783333-\$ or US-6779990-\$ or US-6776589-\$ or US-6761543-\$ or US-6752067-\$ or US-6749408-\$ or US-6745667-\$ or US-	USPAT	OR	OFF	2008/10/10 13:04

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		3698288-\$ or US 3697197-\$ or US 3692435-\$ or US 3666142-\$ or US 3664461-\$ or US 3663127-\$ or US 3656874-\$ or US 3653787-\$ or US 3612729-\$ or US 3612728-\$ or US 3600111-\$ or US 3597119-\$ or US 3591315-\$ or US 3572981-\$ or US 3250931-\$ or US 3225758-\$ or US 1832588-\$).did.				
L15	1100	(417/415).CCL.S.	USPAT; USOCR	OR	OFF	2008/10/10 13:04
L16	349	L15 and piston	USPAT	OR	OFF	2008/10/10 13:04
L17	2	L16 not I14	USPAT	OR	OFF	2008/10/10 13:04
S1	12	((IKUTOMO) near2 (UMEOKA)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 14:06
S2	85	((MAKOTO) near2 (KATAYAMA)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 14:16
S3	6	((JUNICHIRO) near2 (YABIKI)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 14:23
S4	0	("5228853.pn.").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 14:29
S5	1	("5228853").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 14:29
S6	3	("20030223891" or "5860395" or "5228843").pn.	US-PGPUB; USPAT	OR	OFF	2008/06/09 14:30
S7	11	("2497781"   "4901679"   "4945864"   "4979473"   "4995346"   "5118263"   "5655495").PN. OR ("5860395").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 16:43
S8	1098	(417/415).CCL.S.	USPAT; USOCR	OR	OFF	2008/06/09 17:09
S9	0	("2andpiston").PN.	USPAT; USOCR	OR	OFF	2008/06/09 17:09
S10	347	S8 and piston	USPAT	OR	OFF	2008/06/09 17:09

S11	148488	piston.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 17:55
S12	4489	(piston and head).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 17:55
S13	1769	(piston and head and (engine or compressor or pump)).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 17:56
S14	60	(piston and head and (engine or compressor or pump) and pin).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 17:57
S15	966	(123/193.6).CCL.S.	USPAT; USOCR	OR	OFF	2008/06/09 18:14
S16	0	("9andpiston").PN.	USPAT; USOCR	OR	OFF	2008/06/09 18:15
S17	517	S15 and piston.ti.	USPAT	OR	OFF	2008/06/09 18:15
S18	21	S15 and (piston and head).ti.	USPAT	OR	OFF	2008/06/09 18:15
S19	12	("4158328"   "4274372"   "4730549"   "5000078"   "5839352").PN. OR ("6357341").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 18:25
S20	16	("4577595"   "4581983"   "5065706"   "5653204"   "5724933"   "6026777"   "Re34139").PN. OR ("6314933").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 18:29
S21	42	("2340662"   "3189010"   "3190273"   "3349672"   "3613521"   "3914574").PN. OR ("4581983").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 18:31



S22	35	("3413897"   "3464100"   "4608947" "4847964"   "4878466"   "5052280" "5144923"   "5150517"   "5261363" "5357920").PN. OR ("5778533").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 18:53
S23	9	("1468586"   "1760122"   "2381065" "2407440").PN. OR ("RE35551").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:05
S24	5	("2407440").URPN.	USPAT	OR	OFF	2008/06/09 19:06
S25	16	("1462501"   "1760122"   "2407440" "4535682"   "4599935").PN. OR ("4809591").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:06
S26	10	("1760122"   "4599935"   "4752995" "4809591"   "4903580").PN. OR ("5076226").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:09
S27	13	("3319535"   "3403605"   "4161165" "4715267"   "4752995"   "4817505" "5076226"   "5174249").PN. OR ("5713262").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:10
S28	19	("2149862"   "2195552"   "2848287" "3403605"   "3987709"   "4535682" "4648309"   "4683808"   "4691622").PN. OR ("4817505").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:11
S29	19	("1727647"   "2066613"   "2120090" "2141784"   "2802707"   "2802708").PN. OR ("3987709").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:16
S30	11	("2032849"   "2066613"   "3307456" "3987709"   "4161165").PN. OR ("4702151").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:19

S31	9	("4358881"   "4702151"   "4709621"   "4785774"   "4887519").PN. OR ("5063893").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:20
S32	18	("1229133"   "4433616"   "4530341").PN. OR ("4709621").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:23
S33	3	("2066613").URPN.	USPAT	OR	OFF	2008/06/09 19:30
S34	25	("1953109"   "2066613"   "2108865"   "2315403"   "3012831"   "3035559"   "3413897").PN. OR ("3628511").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:31
S35	2	("2032849").URPN.	USPAT	OR	OFF	2008/06/09 19:35
S36	1	("2141784").URPN.	USPAT	OR	OFF	2008/06/09 19:42
S37	18	("2344416"   "3438789"   "3621617"   "3654692"   "3732759"   "4048975"   "4075934"   "4535682").PN. OR ("4752995").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:53
S38	18	("4535682"   "4648309"   "4691622"   "4752995"   "4760771"   "4809591"   "4903580"   "5076226"   "5115726"   "5144884"   "5172626"   "5174193"   "5193435"   "5251540"   "5682808"   "RE35551").PN. OR ("6502539").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:54
S39	26	("1575751"   "2186375"   "2190207"   "2352592"   "2513814"   "4648309"   "4656711"   "4691622"   "4716817"   "4809652"   "4831919"   "4864986"   "4903580"   "5107807").PN. OR ("5172626").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:58

S40	5	("2352592").URPN.	USPAT	OR	OFF	2008/06/09 20:00
S41	3	("2190207").URPN.	USPAT	OR	OFF	2008/06/09 20:01
S42	16	("2190207"   "2194247"   "2217542" "2416487"   "2464554"   "4987866").PN. OR ("5839351").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:01
S43	29	("1875039"   "2795468"   "3906923" "4194650"   "4541377"   "5114047" "5275309"   "5448942"   "5839351" "6193482"   "6327962"   "6453797" "6763758"   "6772846"   "6820582" "6892689"   "D122922"   "D286780"   "D286781"   "D287599"   "D322969"   "D371562"   "D373773"   "D377493"   "D383761"   "D399212").PN. OR ("D515590").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:02
S44	12	("4648309"   "4716817"   "4756241" "5058489"   "5076226"   "5107807" "5158008"   "5193436").PN. OR ("5448942").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:04
S45	24	("2046789"   "2149862"   "2217542" "2262132"   "2309555"   "2497380" "2513814").PN. OR ("4756241").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:05
S46	7	("2309555").URPN.	USPAT	OR	OFF	2008/06/09 20:07
S47	2	("2046789").URPN.	USPAT	OR	OFF	2008/06/09 20:12
S48	9	("2795468"   "3123899"   "D056347").PN. OR ("D286781").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:14

S49	0	("D056347").URPN.	USPAT	OR	OFF	2008/06/09 20:14
S50	0	("D056347").URPN.	USPAT	OR	OFF	2008/06/09 20:14
S51	0	("D056347").URPN.	USPAT	OR	OFF	2008/06/09 20:15
S52	8	("2795468"   "3123899"   "D056347").PN. OR ("D286780").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:17
S53	40	("1228048"   "1727390"   "1875039"   "1979498"   "2208898"   "2806751"   "2817562"   "3051536"   "3220101"   "3405610").PN. OR ("3906923").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:19
S54	17	("2802706"   "3035879"   "3058792"   "3137439"   "3906923"   "4058104"   "4111104"   "4158328"   "4508019").PN. OR ("4719846").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:20
S55	21	("1432799"   "1531066"   "1665438"   "1787638"   "2119633"   "2857218"   "2921823"   "3667443"   "3815558").PN. OR ("4058104").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:22
S56	16	("1693584"   "2080286"   "3115070"   "3327593"   "3505934"   "3906923"   "4314531").PN. OR ("4677900").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:24
S57	5	("3505934").URPN.	USPAT	OR	OFF	2008/06/09 20:25
S58	13	("4535682").URPN.	USPAT	OR	OFF	2008/06/09 20:26
S59	14	("1760122"   "2381065"   "2407440"   "3515035"   "4535682").PN. OR ("4599935").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:28
S60	8	("1760122").URPN.	USPAT	OR	OFF	2008/06/09 20:29

S61	14	("1016561"   "1760122"   "2195552"   "2407440"   "4535682").PN. OR ("4760771").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:30
S62	4	("1016561").URPN.	USPAT	OR	OFF	2008/06/09 20:31
S63	14	("1760122"   "2381065"   "2407440"   "3515035"   "4535682").PN. OR ("4599935").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 20:33
S64	3	("2194247").URPN.	USPAT	OR	OFF	2008/06/09 20:44
S65	1	("1575751").URPN.	USPAT	OR	OFF	2008/06/09 20:48
S66	6	("3319535").URPN.	USPAT	OR	OFF	2008/06/09 20:51
S67	10	((recess or (bearing near2 surface)) and piston and skirt and (notch\$2 or groove\$1 or slot\$1)).ab.	USPAT	OR	OFF	2008/06/09 21:29
S68	8	("2035692"   "5113817"   "5996545"   "6023619"   "6209510"   "6491013"   "6763758").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 21:30
S69	184	((recess or notch\$2 or groove\$1 or slot\$1) and piston and (skirt or (bearing near2 surface))).ab.	USPAT	OR	OFF	2008/06/09 21:36
S70	18	("0791236"   "1101682"   "1756761"   "2574934"   "3272091"   "3564978"   "3589756").PN. OR ("3765307").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 08:17
S71	1282	((recess or notch\$2 or groove\$1 or slot\$1) and piston and (skirt or (bearing near2 surface))).ab.	US-PGPUB; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 08:26
S72	1251176	S71 and pump or compressor or engine	US-PGPUB; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 08:26

S73	861	S71 and (pump or compressor or engine)	US-PGPUB; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 08:27
S74	409	S73 and cylinder	US-PGPUB; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 08:27
S75	2218	inverter with operation with frequency	USPAT	OR	OFF	2008/06/10 09:50
S76	234	S75 and compressor	USPAT	OR	OFF	2008/06/10 09:51
S77	71	S76 and (power with supply with frequency)	USPAT	OR	OFF	2008/06/10 09:52
S78	34	refrigerant with R600 \$1	USPAT	OR	OFF	2008/06/10 17:53
S79	1	jp-2004027969-\$.did.	DERWENT	OR	OFF	2008/10/09 14:20

10/ 10/ 2008 2:19:07 PM

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